JACKPILE-PAGUATE MINE
RECLAMATION PLAN REQUIREMENTS

A. GENERAL PHILOSOPHY OF RECLAMATION:

1. Post Mining Land Use (Grazing and Agriculture).
2. Elimination of Hazards.
3. Aesthetics:
4. Site Stability (Need for Perpetual Care).
5. Use of Laguna Personnel During Reclamation.
6. Timetable.
7. Costs.

B. SURFACE STRUCTURES:

1. Railroad Spur:

   a. Radionuclei Hazards in Ballast, Soils, and Ties.
   b. Proposed Disposition of Track, Ties, and Soils.
   c. Possible Post Mining Uses If Left Intact.

2. Vent Holes:

   a. Disposition of Fence, Pad, Pipe, Butate Tanks, Powerlines, etc.
   b. Method of Plugging Holes.
   c. Method of Reclamation of Site and Access Roads.

3. Exploration Holes:

   a. Status of Plugging Program.
   b. Reclamation and Revegetation Measures.

4. Buildings and Houses:

   a. Location.
   b. Description - Services Available, Size, etc.
   c. Proposed Disposition.
   d. Possible Post Mining Uses.
   e. Paguate Homes (Radiation Hazards, Structural Damage).

5. Roads:

   a. Location.
   b. Description.
   c. Radionuclei Hazards of Adjacent Soils.
   d. Disposition.
   e. Rerouting 279 to Original Position.

6. Parking Areas:

a. Location.
b. Description - Size, Surface Cover, etc.
c. Possible Radionuclei Hazards.
d. Disposition.

7. Sewage Lagoons:

a. Location - Proximity to Buildings.
b. Post Mining Usefulness.
c. Disposition.

8. Mining Equipment:

a. Disposition.

9. Powerlines:

a. Location.
b. Post Mining Usefulness.
c. Disposition.

10. Water Wells:

a. Location.
b. Quantity of Production.
c. Quality.
d. Disposition.
e. Possibility of Drilling Additional Wells.

11. Landing Strip:

a. Disposition.

C. WASTE PILES:

1. Description:

a. Location.
b. Color.
c. Amount, Type, and Chemical Content of Top-Dressing.

2. Physical Form:

a. Berms - Location, Size, and Height.
b. Benches - Location and Size.
c. Slopes.
d. Tops.
e. Erosion From Wind and Surface Runoff.
f. Erosion from Adjacent Streams.
g. Access for Livestock.

3. Revegetation:

a. Type of Species.
b. Density of Species and Grazing Capacity, and Grazing Control.
c. Ability to Concentrate Toxic Elements.

4. Hazards:

a. Release of Radiation and Radioactive Elements into Ambient Atmosphere.
b. Natural Leaching of Radioactive Elements.
c. RECRA Compliance.
d. Radiological Description of Waste Piles.

D. OPEN PITS:

1. Pit Bottoms:

a. Amount, Type, Elevation, and Location of Backfilling.
b. Drainage.
c. Probability of Contaminated Standing Water.
d. Type and Density of Revegetation Species.
e. Livestock and Wildlife Access.
f. Release of Radioactive and Toxic Elements.
g. Final Pit Outline, and Pit Topography.
h. Natural Leaching of Ore Zone.
I. Areas Suitable for Agriculture.

2. Pit Walls:

a. Location, Height, and Stability of Remaining Walls.
b. Amount, Type, and Location of Fencing.
c. Benching.
d. Location, Slope, and Stability of Highwall Sloping.
e. Procedure for Highwall Sloping.
f. Aesthetics.
g. Special Measures for Gavilon Mesa.

E. PROTORE STOCKPILES:

1. Amount and Composition:

2. Disposition:

a. Proximity to Watertable.
b. Amount and Type of Cover.
c. Difficulty of Future Recovery.
d. Radiological Hazards of Natural Leaching.

3. Disposition of Material Lying Under the Protore Stockpiles' Present Location.

F. ORE STOCKPILES:

1. Present Location.
2. Timetable for Removal.
3. Disposition of Material Lying Under Their Present Location.

G. ENTRIES INTO THE SUBSURFACE:

1. Location and Method of Permanently Sealing All Adits, Shafts, and Hydraulic Mining Sites.
2. Stability of Proposed Methods.
3. Reclamation of Affected Areas.

H. AREAS UNDERLAIN BY UNDERGROUND MINING:

1. Location.
2. Probability of Subsidence.
3. Impact on Existing Structures.
4. Proposed Mitigating Measures.
5. Location and Duration of Monitoring.
6. Results, Indications, Estimates From Previous Monitoring.

I. DRAINAGES:

1. Rio Paguate and Rio Moquino:

   a. Floodplain Reestablishment.
   b. Chemical and Radiological Changes in Their Quality.
   c. Siltation.
   d. Establishment of Original Channel.
   e. Stabilization of All Channels.

2. Quirk Dam:

   a. Amount of Siltation Caused by Mining.
   b. Chemical and Radiological Content of Sediment.
   c. Proposed Mitigation.

3. Blocked Drainages:

   a. Locations.
   b. Probability of Ponding.
   c. Quality of Ponded Water.
   d. Proposed Mitigation.

J. MINE WATER HOLDING PONDS:

1. Location.
2. Chemical and Radiological Content of Sediment.
3. Disposition of Sediment and Remaining Water.

K. UNDISTURBED AREAS:

1. Location Map.

L. MONITORING:

1. Describe Air, Surface Water, Subsurface Water, Soil, Waste Dump, Subsidence, Paguate Sediment, and Vegetation Monitoring Being Conducted.
2. How Long Will Monitoring Be Performed.

M. REMAINING RESERVES:

1. Location and Grade.
2. General Economic Forecast for the Reserves.
3. Possible Mining Techniques - In Situ, Hydraulic, etc.
4. Amount of Reserves Remaining Under Paguate.

N. SPECIAL TOPICS:

1. Overall Radiation Levels After Reclamation.
2. Overall Groundwater Impacts.
3. Status of Groundwater Study.
4. Anticipated Future Study Topics.
5. Cooperative Studies With SEAM and USGS.
6. Landscape Architect's Interpretation of Final Aesthetics.
7. Gavilon Mesa.